

File No.

T 14 N R 20

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater unknown at present time
Probably dates back to time of government patent.
Owner Dorille E. Lucier Address Rta. #2, Mala, Mont.
& Lena V. Lucier, husband and wife
Contractor (if any) not applicable

Address of Contractor not applicableDate Started not applicable Date Completed not applicable

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. a regular spring which comes from the underground by natural pressures. The water is guided to a water tank by pipe which is placed approximately nine feet below ground level at point of the spring source. However, water from spring does come to ground surface.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. spring fills a 250 gallon tank approximately 10 times a day; therefore, spring produces approximately 2,500 gallons or more in 24 hours.

Signature of Owner

Dorille E. Lucier
Lena V. Lucier

Date December 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1037

215512

I received and filed this instrument for
record on the 31 day of Dec 1943
at 3:49 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. BEHNER, County Recorder
By M. A. T. N. S. Behner Deputy
Fee \$ 2.00 Paid

52,692

2430

329110

I received and filed this instrument for	
record on the <u>14</u> day of <u>June</u> 19 <u>73</u>	
at <u>11:45</u> o'clock <u>A</u> M, permanent files	
of Missoula County, State of Montana	
Witness my hand.	
Dorothy L. Head, County Recorder	
By <u>Sharon Shady</u> , Deputy	
Fee \$ <u>2.00</u>	Paid

What is this?

And. Claimed?

Sunset Well, Inc.

14N-20W
County MISSOULA

ANA
GROUNDWATER CODE
RESOURCES BOARD
IF GROUNDWATER
SANS OF WELL
ry 1, 1962

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

(Laws, 1961, as amended)

nd three copies to be filed
id Recorder in the county in
be retained by driller.
cable, so state, otherwise the

For Administrator's Use
File # 431,329 III
MAR 14, 1973
GW 1 11:45 A.M.

Date well started Feb. 21, 1973
completed Feb. 22, 1973

Type of well Drilled
(Dug, driven, bored or drilled)

Equipment used Churn Drill
(Churn drill, rotary or other)

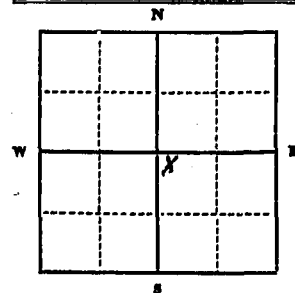
Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" ID	6" ID 17 lb per ft.	CASING PULLED				



Static water levelft.*
Pumping water levelft.*
atgallons per minute,
measuredminutes after pumping
began.
*Measured from ground level.
Well developed by
forhours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

14 1/4 SE 1/4 Sec. 8
T. 14 N. R. 20 W.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature *John Camp*
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W., Missoula, Montana 59801

LICENSE NO. 7

Top of Ground (Elev. above sea level)	
From (Feet)	To (Feet)
0	31
31	37

Show exact depth of bottom

52,693.

3291

329111

I received and filed this instrument for
record on the 14 day of March 1923
at 11:48 o'clock A. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Ernest J. Hickey, Deputy
Fee \$ 2.00 Paid

1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060
2061
2062
2063
2064
2065
2066
2067
2068
2069
2070
2071
2072
2073
2074
2075
2076
2077
2078
2079
2080
2081
2082
2083
2084
2085
2086
2087
2088
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2100

Sunset West, Inc.
RECEIVED
MAY 10 1973

14N 20W
County MISSOULA - 8

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner *SUNSET WEST, INC.*
BARBARA A. JOHNSON

Address *1010 W.*
MISSOULA, MONTANA

Date well started *Feb. 21, 1973*
completed *Feb. 22, 1973*

For Administrator's Use	
File	<i>2431; 32911</i>
<i>MARCH 14, 1973</i>	
<i>GW 11:45 A.M.</i>	

Type of well *Drilled*
(Dug, driven, bored or drilled)

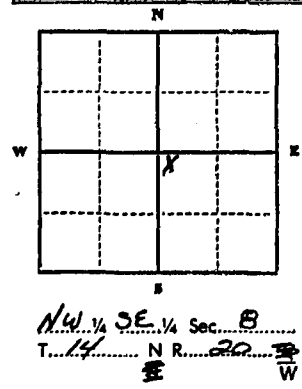
Equipment used *Churn Drill*
(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe _____
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). _____

ESTIMATED ANNUAL WITHDRAWAL _____

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<i>6" ID</i>	<i>6" ID 17 lb per ft.</i>	<i>CASING PULLED</i>				



Static water level _____ ft.*
Pumping water level _____ ft.*
at _____ gallons per minute,
measured _____ minutes after pumping began.
*Measured from ground level.
Well developed by _____
for _____ hours.
Power _____ Pump _____ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) _____
CASING PULLED

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature *John Campbell*
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address *1522 S. 14th W., Missoula, Montana 59801*

LICENSE NO. *7*

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)	
From (Feet)	To (Feet)
<i>0</i>	<i>37</i>
<i>Brown clay & Gravel</i>	
<i>31</i>	<i>37</i>
<i>Gray Clay & Gravel</i>	

37 Show exact depth of bottom

J.P.M.

9

Is this a used well or not?

RECEIVED

FEB 22 1973

14K 200
County Missoula

MONTANA
GROUNDWATER CODE
SOURCES BOARD

OF GROUNDWATER
MEANS OF WELL

January 1, 1962

on Laws, 1961, as amended)

and three copies to be filed
and Recorder in the county in
to be retained by driller.
licable, so state, otherwise the

For Administrator's Use

File 2418, 328184

Feb. 20, 1973

GW 1 11:30 a.m.

Date well started Aug. 18, 1972

completed Sept. 15, 1972

Type of well Drilled

(Dig, driven, bored or drilled)

Equipment used Churn Drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

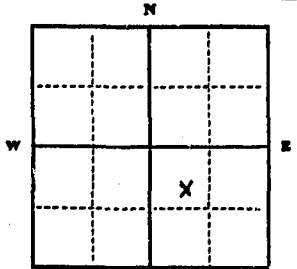
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain,
state number of acres and location or other data (i.e. Lot, Block
and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
6" ID	6" ID 17 lb per ft.	CASING PULLED		Kind Size	From (Feet)	To (Feet)



NW 1/4 SE 1/4 Sec. 8
T. 14 N. R. 20 W.

Static water levelft.*
Pumping water levelft.*
atgallons per minute,
measuredminutes after pumping
began.

*Measured from ground level.

Well developed by
forhours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing,
packers, type of shutoff)

Well would not clear

CASING PULLED

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
0	1	Black Dirt & Gravel
1	25	Tan Clay & Gravel
25	26	Clay, Gravel & Seep of Water
26	34	Tan Clay & Gravel
34	48	Brown Clay & Gravel
48	80	Light Gray Clay & Gravel
80	91	Sandy Clay & seep of water
91	99	Gray Clay, Sand & Gravel
99	106	Brown Clay & Gravel
106	154	Brown Clay
154	157	Water (25 gpm) Charcoal
157	168	Brown Clay & Charcoal
168	172	Brown Clay & Charcoal Water (15 gpm)
172	198	Brown Clay & Charcoal
198	215	Light Gray Clay & Charcoal
215	237	Brown Clay & Charcoal
237	245	White shale & Charcoal
245	290	Light brown shale Charcoal & small Gravel

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Camp Well Drilling & Pump Supply

Driller's Address 1822 S. 14th W. Missoula, Montana 59801

LICENSE NO. 7

290'

Show exact depth of bottom

52,473.

52,473.

3416 328184

I received and read this instrument for
record on the 20 day of Feb 1912
11:15 o'clock A. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By D. L. Head Deputy
Fee 3.00 Paid

File No. _____

T 14N R 20W

DUPLICATE

County MissoulaSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater

Appropriation by Means of Well

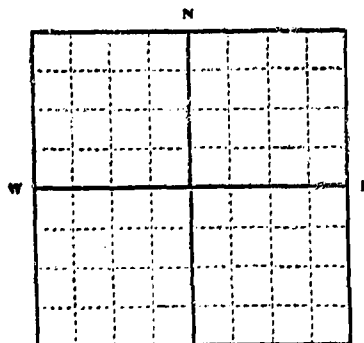
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level _____)
pit
6' clay gravel
50' gravel water 1/2 gal min
53' yellow clay
60' brown clay
68' red clay
84' white clay gravel
108' dark brown clay
112' water gravel 3 gal min
113' hard clay gravel
123'

Rt #2
Owner Claude Lackner Address _____
Driller John Farrell Address Arlee Mont
Date of Notice of Appropriation of Groundwater _____
Date well started Dec 18 1963 Date Completed Dec 24 1963
Type of well drilled Equipment Used churn drill
(aug, driven, bored or drilled) (Churn, drill, rotary or other)
Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Kind Rate	From (Feet)	To (Feet)	PERFORATIONS		
			Kind Rate	From (Feet)	To (Feet)
3"	14 1/2'	6'			106'



Section 9 T. 14N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 48' feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 120' feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested bailer Length of Test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) _____

20' 4" perforated liner torch slots 112' to 115'

123' Show exact depth of bottom.

14
Driller's License Number

John Farrell
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

20356

1237

Copy
I received and filed this instrument for
record on the 24th day of June 1963
at 7:50 PM in the permanent files
of the Clerk of the County of Montana
Witness my hand
County Recorder
By Margaret B. B. B. Deputy
Fee \$ 2.00 Paid

File No. _____

T. 14N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964

Declaration of Vested Groundwater Rights STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

1. Orson E. Lockner, of Rt 2 Missoula
(Name of Appropriator) (Address) (Town)

County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

5 1/2 NE 1/4 SE 1/4
1/4 Sec. 9 T. 14N R. 20W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based.....

irrigation of 17 acres

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....

July 22, 1958
continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....

30 gal per min

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....

two tracts, one 9 acres,
one 8 acre, Orson E. Lockner
and Orson E. Lockner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....

2 1/2 horse
power pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....

June 29, 1958

8. The depth of water table.....

18 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....

5 inch steel casing, 50 ft
deep

10. The estimated amount of groundwater withdrawn each year.....

3,888,000 gals

11. The log of formations encountered in the drilling of each well if available.....

not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....

Signature of Owner.....

Orson E. Lockner

Date Dec. 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

20357

1238

Copy
I receipt of the day payment for
record of the day of 1963
at 751 31. and of the provisions fees
of Michigan County State of Michigan
Willie's 114 hand
By Martin A. B. 114 County Recorder
Rec'd 114 Deputy

GW 3

File No.

NW 1/4 Sec 10 T. 14 N. R. 20 W.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

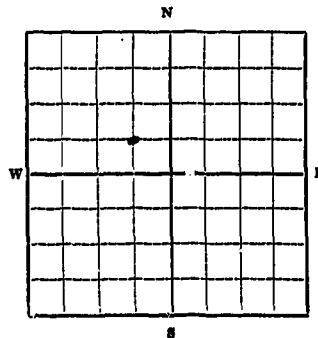
RECEIVED
DEC 26 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

*This location of this spring
may be not exactly correct as
to the perfect location on this
chart.*



NW 1/4 Sec 10 T. 14 N. R. 20 W.

Indicate point of appropriation
and place of use, if possible.

Date of Appropriation of Groundwater

Owner Jesse A. Johnson 1434 Howarth St
Englewood, Colorado Address Englewood, CO

Contractor (if any) NONE

Address of Contractor

Date Started — Date Completed —

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable.

NATURAL SPRING FLOWING FROM
UNDERGROUND TO SURFACE AND USED
EXCLUSIVELY FOR STOCK WATER

Quantity of water developed and used with explanation of meth-
od used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use

Jan 1st to Dec 31stSignature of Owner Jesse A. JohnsonDate Dec 13, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in
which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the
Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12350

530

214781

I received and filed this instrument for record on the <u>23</u> day of <u>Dec</u> , 19 <u>63</u> at <u>4:12</u> o'clock <u>P.</u> M., permanent file of Missoula County, State of Montana	
Witness my hand: MARTIN S. BEHNER, County Recorder	
By <u>Ethel Lane</u>	Deputy
Fee \$ <u>2.00</u>	Paid

GW3

File No.

NW 1/4 Sec 10 T. 14 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

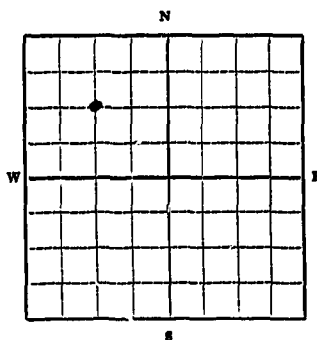
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Owner Jesse H. Johnson Address 1434 Howell St
Contractor (if any) NONE

Address of Contractor

Date Started Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....



NATURAL SPRINGS EMERGING FROM
UNDERGROUND TO SURFACE -
SPRINGS DEVELOPED WITH SURFACE
STORAGE AND PIPED 600' FOR IRRIGATION

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

NW 1/4 Sec. 10 T. 14 R. 20 W
Indicate point of appropriation and place of use, if possible.

Nov 1st to Dec 31st

Signature of Owner Jesse H. Johnson
Date Dec 13, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12349

529

214 780

I received and filed this instrument for
record on the 22 day of Dec 1963
at 4:10 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
MARTIN S. [unclear] County Recorder
By Ethel Lane

File No.

T^W 4 Sec. 10 T. 14 N. R. 20 E.

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

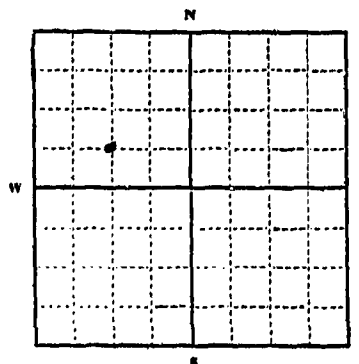
RECEIVED
DEC 26 1963

Notice of Appropriation of Groundwater STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

1. Jesse A. Johnson of 1434 Howchick St. Missoula, Mont
(Name of Appropriator) (Address) (Town)
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Future Education For
Approximately 15 acres of Dry Bottom Land
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 200 gal per minute
4. The annual period (inclusive dates) of intended use April 1st to Sept 30th
5. The probable or intended date of first beneficial use Not Established
6. The probable or intended date of commencement and completion of the "well" or wells No set date
7. The location, type, size and depth of well or wells contemplated Drilled Well - 6" Approximately 60' in Depth
8. The probable or estimated depth of the water table or artesian aquifer Approx 60 FT
9. Name, address and license number of the driller engaged None

10. Give such other similar information as may be useful in carrying out the policy of this act.

Any other information is based
on the location of the
well.



N.W. 1/4 Sec. 10, T. 14, R. 20 E.
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Jesse A. JohnsonDate Dec 13, 1963

- * As defined in the Code Sec. 1 (e) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate to the Appropriator.

12348.

528

214729

I received and filed this instrument for	
record on the 23 day of Nov 1963	
at 4:05 o'clock P. M. permanent files	
of Missoula County, State of Montana	
Witness my hand	
MARTIN S. BEHNER, County Recorder	
By <u>Carol Kane</u> Deputy	
Fee \$ 2.88	Paid

Form No. 18
8-60

T. 14 R. 20 10

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

STATE ENGINEER

WATER WELL LOG

x			

Owner Libby Weaver Address St Regis
Driller John Farrell Address same
Date Started Apr 20 - 1961 Date Completed Apr 25 - 1961
Location: In W $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 4 T. 14 R. 20 $\frac{1}{4}$ sec. N $\frac{1}{2}$ SW $\frac{1}{4}$

Type of well x Equipment used y
(Dug, driven, bored, or drilled) (Hammer, auger, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Casing: 0 ft. to 14 ft. Type 13 1/8 inch Size 5"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. to Ft. . Ft. to Ft.

Type of screen or perforations

Static Water level, for non-flowing well: 16 feet.

Shut-in pressure, for flowing well: lb./sq. in. on: Apr 25 - 1961
(date)

Pumping water level 60 feet at gal. per min. 25

How tested: Bailer

Length of test 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

I received and filed this instrument for recording on the 23 day of Feb 1941
at 9:01 o'clock P. M. personal files
at Winona County, State of Minnesota
Witness my hand:
MARION E. BEHNKE, County Recorder
By *Marion E. Behnke* Deputy
Feb 5 1941 Filed

92 186435

W 3

Approved Stock Form—State Publishing Co., Helena, Montana—42342

File No. _____

T. 14 R. 20

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1968
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater _____

Owner Mary Jane Dougherty Address Rt 2 Missoula

Contractor (if any) None

Address of Contractor _____

Date Started May 1937 Date Completed July 1937

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Artesian - 1" pipes

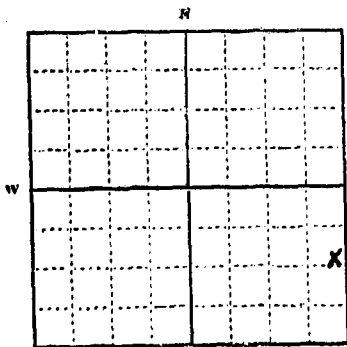
Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use year

round - 4 gal a minute
stock water - fresh lake

Signature of Owner Mary Jane Dougherty

Date Dec 31st 1962



NE 1/4 Sec. 13 T. 14 R. 20

Indicate point of appropriation and place of use, if possible.

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1028

215502

I have read and filed the instrument
record on the 31st day of Dec. 1913
at 3:38 P. M. permanent file
of Helena County, State of Montana
Witness my hand
MARTIN S. DEHNER, County Recorder
By Martin S. Dehner, Deputy

14N-20W 14
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Richard W. Tag
Address Route 2, Butler Creek
Missoula, Montana 59801
Date well started May 26, 1971
completed June 1, 1971

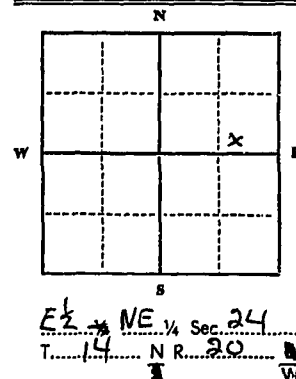
For Administrator's Use	
File	<u>307171</u>
Date	<u>September 2, 1971</u>
Time	<u>3:40 PM</u>
GW 1	

Type of well Drilled
(Dug, driven, bored or drilled)
Equipment used Churn Drill
(Churn drill, rotary or other)
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe _____
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). _____

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft.	13" above g.l.	85'			



Static water level ground level
Pumping water level 75 ft.*
at 3 gallons per minute,
measured 60 minutes after pumping
began.
*Measured from ground level.
Well developed by test pump
for 2 hours.
Power 400 Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) _____

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Glenn Camp
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W., Missoula, Montana 59801

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	4	Brown topsoil & Gravel
4	20	Brown clay & gravel, trace of water
20	25	Brown clay
25	27	Brown clay & water
27	34	Tan clay & gravel
34	36	Tan clay & gravel
36	45	Sand silt water
45	49	Same gravel
49	81	Gravel & gray clay
81	85	Gravel, gray clay
		75

LICENSE NO. 7

85' Show exact depth of bottom

49010

* 2179

307171

I received and filed this Instrument for	
record on the <u>2nd</u> day of <u>Sept.</u> 19 <u>21</u>	
at <u>2:40</u> o'clock <u>P.</u> M., permanent file	
of Missoula County, State of Montana	
Witness my hand.	
Vermaas R. Crouse, County Recorder	
By <u>R. Crouse</u>	Deputy
Fee \$ <u>500</u>	Paid

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner **Trail Realty**

Address ..**Bud Lake Village**..

Missoula...Montana

Date well started Feb. 20, 1973 GW 1 9:30 A.M.

completed ..Feb..25, 1973

Type of well **Drilled**
(Dug, driven, bored or drilled)

Equipment used **Churn drill**
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

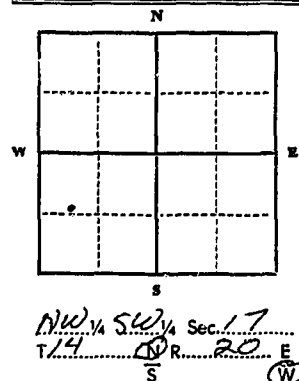
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 2,000,000 gallons

Size of Drilled Hole	Size and Weight of Casting	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" 17#	1 up	117			



Static water level **80** ft.*
Pumping water level **110** ft.*
at **8** gallons per minute,
measured **120** minutes after pumping
began.

*Measured from ground level.

Well developed by **Bailer**.

for 4 hours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing,

packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Charles H. Hester

Driller's Address C.K.C Drilling, P.O. Box 670.

Missoula, Montana

LICENSE NO. 185

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

117' Show exact depth of bottom

54475

2542

334093

I received and filed this instrument for
record on the 28 day of June 1921
at 9:30 o'clock A. M., permanent files
of Missoula County, State of Montana
Witness my hand:
Dorothy L. Head, County Recorder
By Mary M. Head, Deputy
Fee \$ 2.00 Paid ✓

5,000.000 \$

RECEIVED

MAY 9 1958

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 14 R. 20

County. Mussouri

WATER WELL LOG

Owner *Alfred B. DeChamps*

Address

Driller *John Farrell*

Address

Arlee

Date Started *April 28-1958*

Date Completed

May 1-1958

Location: Sec. 18 T. 14 R. 20 1/4 sec.

Type of well

(Dug, driven, bored, or drilled)

Equipment used

(Churn drill, rotary, other)

Water use: Domestic

☒

Municipal

☐

Stock

☐

Irrigation

☐

Industrial

☐

Drainage

☐

Other:

Casing: ft. to ft.

Type *Blank*

Size *5"*

Casing: *7'* ft. to *147' 7"* ft.

Type

Size

Casing: ft. to ft.

Type

Size

Perforated or Screened: Ft. to ft. Ft. to ft.

Type of screen or perforations

Static Water level, for non-flowing well: *35'* feet.

Shut-in pressure, for flowing well: lb./sq. in. on:

May 2 1958
(date)

Pumping water level: *60'* feet at gal. per min. *12*

How tested: *Pump*

Length of test: *1 Hr.*

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
		7' pit
7	28	clay gravel sand
28	143	sand fine water
143	147	gravel water

151669 Copy

28

File No. _____

T. 14N R. 20W

DUPLICATE

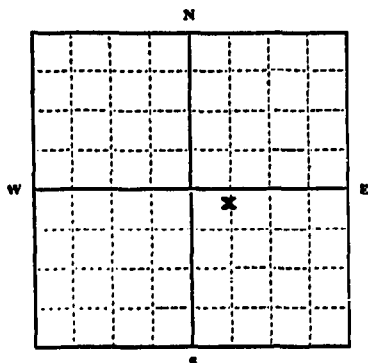
County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

I, Alfred E. Deschamps, of St. 2, Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Well 1/4 Sec. 18 T. 14N R. 20W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based domestic
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1905
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal hand pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1905 commenced and completed
8. The depth of water table 30 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 10 inch cement casing - 125 feet deep
10. The estimated amount of groundwater withdrawn each year 150,000 gallons
11. The log of formations encountered in the drilling of each well if available clay and gravel
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record none

Signature of Owner

Alfred E. Deschamps

Date

Dec 27 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

20378

1259

Copy

I received this document for
recognition at 818 31st Dec 1963
of the records of the Department of the Interior
Without fee
By M. J. Baker Deputy Recorder
Fee \$ 2.00 Paid

File No. _____

T 14N R 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

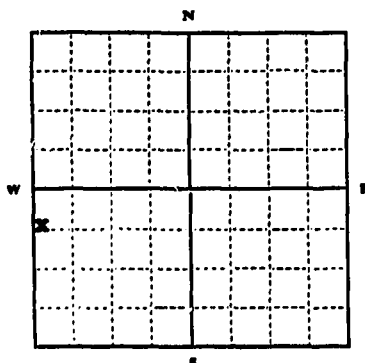
REC'D
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Alfred G. Deschamps of Rt. 2 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Scale: 1/4 mile = 10 T. 14 R. 20

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Domestic, lawn and garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
June, 1958 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 gallons minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Lawn and garden around house

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
1 1/2 h.p. electric motor and pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1958 Commenced and completed

8. The depth of water table 40 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 inch casing, 174 feet deep

10. The estimated amount of groundwater withdrawn each year 500,000 gallons annually

11. The log of formations encountered in the drilling of each well if available clay, gravel

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner

Date December 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

20379

1260

Copy

I received and for this instrument for
record at 819 31st Dec. 1963
of Mineral County, State of Montana
Witness my hand
By M. J. Scher County Recorder
Fee \$ 5.00 Deputy

File No.

T. 14 N R. 20 W 19

DUPLICATE

County MISSOULA

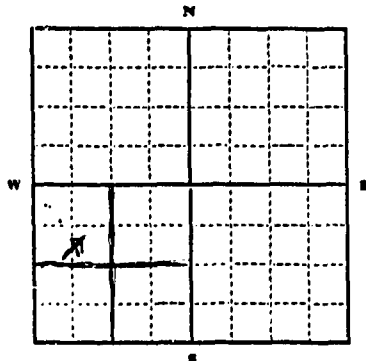
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Leo Larasse, of Route 2 Missoula
(Name of Appropriator) (Address) (Town)

County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N W 1/4 Sec. 19 T. 14 R. 20

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based. Farm home use and cattle water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. April 8, 1953 has been in use since then

4. The amount of groundwater claimed (in miner's inches or gallons per minute) one gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. one horse power Myers pump deep well

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Started April 1, 1953 Completion date April 8, 1953

8. The depth of water table. Twenty feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. DRIVEN FOUR INCH CASING AND A DEPTH OF 146 1/2 FEET

10. The estimated amount of groundwater withdrawn each year. 48000 gals

11. The log of formations encountered in the drilling of each well if available. FORMATION OF SAND & CLAY FOR NO FEET THEN A SMALL PEE GRAVEL AND SAND 30 FEET THEN MORE CLAY AND SAND UNTIL A LARGER GRAVEL & ROCK WERE WATER WAS OBTAINED

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. ON MILLER ROAD 12.5 MILES WEST OF MISSOULA COUNTY LAND 14

Signature of Owner Leo La Carre

Date March 31, 1964

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

46911

1586

248319

I received and filed this instrument for
record on the 21 day of Mar 1966
at 1180 o'clock a m. in the
of Missouri County.
Witness my hand and seal of office
this 21 day of Mar 1966
By John J. [Signature] (Judge)
Fee \$ 2.00 Paid cash

STATE WATER CONSERVATION BOARD
MAR 23 1966

McDermott	_____
McNulty	_____
Morton	_____
Sullivan	_____
Wills	_____
Butterm	_____
Carve	_____
Sanborn	_____
Dickson	_____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Hazel B. Popham - 1000 Rollins, Missoula, Mont.

Owner Robert D Cummins

Address East Of Frenchtown

Date well started Sept. 14 1970

completed Sept. 17 1970

Type of well X
(Dug, driven, bored or drilled)

Equipment used X
(Churn drill, rotary or other)

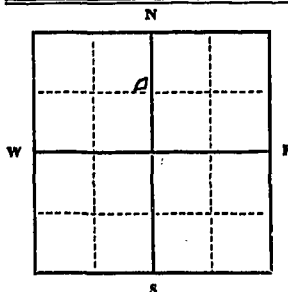
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe house - yard

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" 17#	0	88			



Static water level 17 ft.*
Pumping water level 23 ft.*
at 15 gallons per minute,
measured 90 minutes after pumping began.
*Measured from ground level.
Well developed by Drill Rig
for 2 hours.
Power Electric pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

NE 1/4 NW 1/4 Sec. 20
T. 14 N. R. 20 E.
S. W.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature John Farrell

Driller's Address Arlee Mont

LICENSE NO. 14

14N-20W
County Missoula

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	2	X Top Soil
2	18	Brown Sandy Clay
18	22	Gravel little water
22	54	Sandy Brown Clay
54	83	Fine Sand & Water
83	88	Clean Gravel & water

88' Show exact depth of bottom

486468

2129

302398

I received and filed this instrument for
record on the 7th day of May 1971
at 2:30 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Vernon A. Crain, County Recorder
By *Debbie A. Crain* Deputy
Fee \$2.00 *Crain* Paid

File No. _____

T. 14N R. 20W

DUPLICATE

County Missoula

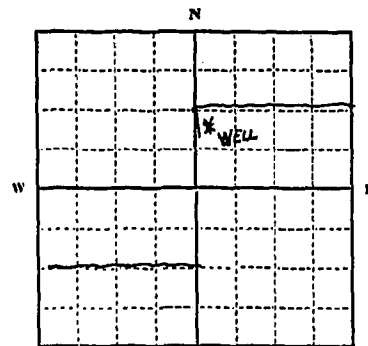
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Missoula Cartage Co., Inc., of Box 94 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



2. The beneficial use on which the claim is based Household use and garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been About 1930 and constant use since that time.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 gallons

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof part time irrigation of approximately 10 acres.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump near dwelling house in N.W. 10 acres of section 21 T. 14N. R. 20W

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No exact date on record, but approximately in 1930.

8. The depth of water table 25 and 50 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Hand dug and driven well

10. The estimated amount of groundwater withdrawn each year 1,450,000

11. The log of formations encountered in the drilling of each well if available Clay and gravel

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner Walter W. Williams, Pres.

Date December 27 - 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19985

285 2/19/93

I received and filed this instrument for
record on the 28th day of Feb 1993
at 10 o'clock A.M., permanent files
of Mineral County, State of Montana
Witness my hand:
W. S. BEHN County Recorder
By Mark R. Behn Deputy
For \$ 200 Paid

File No. _____

STATE WATER CONSERVATION BOARD

T. 14N R 20W 20

DUPLICATE

JAN 12 1967

County Missoula

Name _____

M. Demott _____

Butte _____

City _____

Cov. _____

State _____

Darius _____

County _____

District _____

Office _____

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground _____

(Elev. above sea level _____)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0-20 Gravel & clay

20-28 Clay

28-45 Gravel and clay

45-53 Clay

53-57 Gravel & clay

57-68 Gravel & boulders

68-84 Clay, gravel & boulders

84-88 Gravel & boulders

88-124 Clay, gravel & sand

124-125 Water (4 GPM)

Sand and gravel

125-131 Water, trace sand

gravel and clay

131-134 Sand, gravel & clay

134-135 Water (6 GPM)

sand and gravel

135-139 Sand, gravel & clay

139-141 Water (5 GPM) sand

gravel

141-143 Sand and clay

143-154 Sand, water (15 GPM)

154-155 Clay

155-156 Water and sand

156-158 Clay and sand

158-159 Water, some sand

but stays down

and cleared up.

Owner MISSOULA GUN CLUB Address Hwy 10 W. Post HwyDriller Glenn Camp Address 1522 S. 14th

Date of Notice of Appropriation of Groundwater _____

Date well started Sept 24, 1966 Date Completed Oct. 4, 1966Type of well drilled Equipment Used churn drill

(dug, driven, bored or (Churn, drill, rotary or

drilled) other)

Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐Industrial ☐ Drainage ☐ Stock ☐

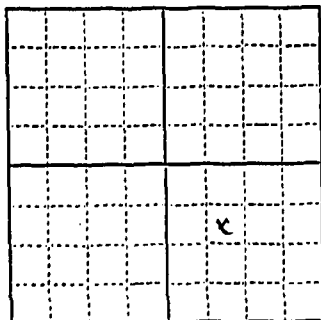
Indicate on the diagram the character and thickness of the different

strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc.

Show depth at which water is encountered, thickness and character of water-

bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D.	1' above G. L.	160'		none	



E.K. Sec. 20 T. 14N R. 20W

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 118' from top of pipe.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 121 feet at 12 gal. per minute.with 5' Draw down

Discharge in gal. per min. of flowing well _____

How Tested test pump Length of Test 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, loca-

tion of place of use of groundwater if not at well, and any

other similar pertinent information, including number of

acres irrigated, if used for irrigation) _____

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

License # 7

Driller's License Number

Driller's Signature Glenn Camp

41651

#676

257033

I received and filed this instrument for
record on the 10 day of Jan. 19 67
at 10:15 o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Vernon H. Croun, County Recorder
By *Smith & Croun* Deputy
Fee \$ 2.00 Paid

File No. _____

RECEIVED

T. 14 R 20 20

DUPLICATE

SEP 15 1967

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level.....)

0-10 Clay, small gravel

10-15 Surface water

15-38 Clay, no gravel

38-43 Gravel, water

**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

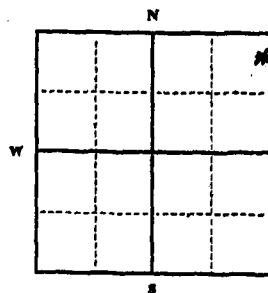
Owner Waldo Williams Address 1 mi N, 2 mi W of Hwy
at Hwy 10 & 22 Junction
West of Missoula
Driller Glen Camp Address 1522 S. 14th W.
Missoula, Montana

Date of Notice of appropriation of groundwater.....

Date well started Sept. 1, 1967 Date completed Sept. 2, 1967Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb	1' above C. L.	43' 6"	NONE		

Static Water Level for non-flowing well
..... 6 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 10 feet

at..... 60 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Air compressorLength of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

NE 1/4 Sec. 20, T. 14, R. 20, W

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

License # 7

Driller's License Number

Driller's Signature Glen Camp

42, 317

737

264069

I received and filed this instrument for
record on the 13th day of Sept 1967
at 2:25 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Thomas R. Crouse, County Recorder
By Smith & R. Crouse
Fee \$ 2.00 Paid

MISSOULA COUNTY RECORDS

File No. _____

MONTANA WATER RESOURCE BOARD
RECEIVED
NOV 12 1968

T. 14 R. 20 20

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground _____

(Elev. above sea level _____)

**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Well location: 1 mi. N,
1/2 mi. W. of HWY at Hwy 10
& 93 Junction W. of Missoula
Sept 1 - 2, 1967

0-10 Clay, small Gravel

Owner WALDO WILLIAMS

Address Rt. 2, Missoula, Mont.

10-15 Surface water

Driller Glenn Camp

Address 1522 S. 14th W.
Missoula, Montana

15-38 Clay, no Gravel

38-43 Gravel, water

Date of Notice of appropriation of groundwater _____

Sept. 1, 1967

Sept. 2, 1967

Oct. 17-18, 1968
(well deepened)

Date well started Oct. 17, 1968

Date completed Oct. 18, 1968

Type of well Drilled

Equipment used _____

Churn Drill

(Dug, driven, bored or drilled)

(Churn drill, rotary or other)

43-75 Gravel, clay & Water

Water use:

Domestic ☒

Municipal ☐

Stock ☐

Irrigation ☐

Industrial ☐

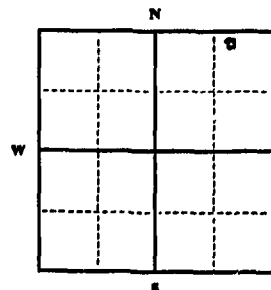
Drainage ☐

Other ☐

75-78 Gravel & Water

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft.	1' above G.L.	78'			



Static Water Level for non-flowing well

from G.L. 10 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 12 feet

at 75 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Air Compression

Length of Test 1 Hour

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

N. 1/4 NE. Sec. 30 T. 14 N. R. 12 W.
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

License # 7

Driller's License Number

Glenn Camp
Driller's Signature Glenn Camp

44, 748

1834

276169

I received and filed this instrument for
record on the 4th day of November 1968
at 3:00 o'clock P. M., permanent files
of Missoula County, State of Montana
Witness my hand
Gordon H. Grouse, County Recorder
By *[Signature]* Deputy
Fee *300 ch.* Paid

File No. _____

DUPLICATE

T. 14 N R 20-21

County Missoula

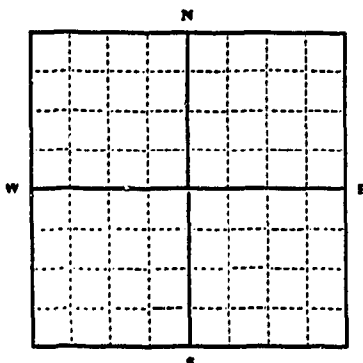
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights **REC'D JAN 3 1964**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Armond J. Lucier of R#2 Missoula
(Name of Appropriator) (Address) (Town)
County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec 24 T. 14 R. 20-21

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based House hold
Cattle - Eng.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 2-8-58

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 70 gal.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Yards

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 2-3-58 - 2-8-58

8. The depth of water table 50 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
drill - 4" pipe - 50 ft.

10. The estimated amount of groundwater withdrawn each year unknown

11. The log of formations encountered in the drilling of each well if available black sand
Clay - sand & sand

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner

Date 12-30-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19942

127

215 136

Copy

I received and filed this instrument for	
record on the	30 day of June 1908
at 11:30 o'clock A.M.	permanent file
of Missouri County, State of Missouri	
Witness my hand:	
MARTIN S. BRINER, County Recorder	
By	<i>W. H. Smith</i> Deputy
Fee \$2.00	Paid

County.....Missoula

241 Show exact depth of bottom

49514

#2208

310108

I received and filed this instrument for
record on the 30 day of Nov 1921
at 3:30 o'clock P.M. permanent files
of Missoula County State of Montana
Witness my hand
Veramus A. Cruise, County Recorder
By Marie Nickels Deputy
Fee 3.00 cash Paid

RECORDED
INDEXED
FEB 1 1922

9212-113-446-50000

RECORDED
INDEXED
FEB 1 1922

File No. _____

T. 14 N. R. 20 W. 21

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

Top of Ground
(Elev. above sea level _____)0- 80 Clay, gravel
and sand

80 Seep of water

80-119 Clay

119-137 Sand, gravel
and clay

137-140 Sand and gravel

140-147 Clay

147-188 Sand, gravel and
some clay181½ Static water
level

188-195 Clay

195-197 Sand, gravel
and water197-241 Sand, gravel
and clay241-253 Heaving sand
clay and water253-253½ Sand, gravel
and water253½ Exact depth
of bottom

Show exact depth of bottom.

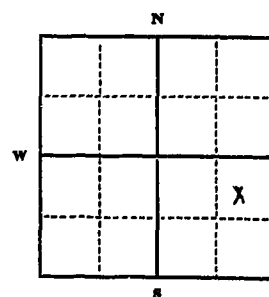
Owner Waldo W. Williams Address Missoula, MontanaDriller C.K.C. Drilling Address Box 670, Missoula

Date of Notice of appropriation of groundwater _____

Date well started May 22, 1970 Date complete June 8, 1970Type of well Drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☒ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" 17#	2 up	253½	---	-----	-----

Static Water Level for non-flowing well
..... 181½ feet.

Shut-in Pressure for Flowing Well -----

Pumping Water Level 196½ feet

at 25 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Test pump

Length of Test 6 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) -----

Doc. No. 292304

Filed for record

this 18 day of JuneA. D. 19 70, at 9:24o'clock PM (Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Well to be used for truck maintenance shop and wash rack

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

185
Driller's License NumberCharles F. Hollenstetter
Driller's Signature.

46593

2005

292304

I received and filed this instrument for
record on the 1st day of June 1979
at 1:24 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Veranda R. Crouse, County Recorder
By W. M. Pennington, Deputy
Fee \$2.00 Paid 66

FILED

GW3

File No.

T. 14N R. 20W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

Notice of Completion of Groundwater Appropriation Without Well STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1902

Owner Paul Hamel Address Rte. 2, Missoula

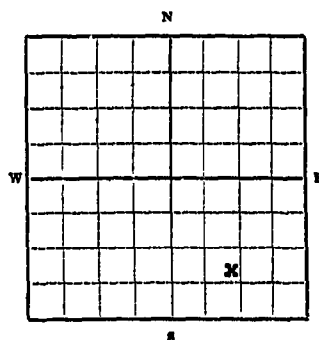
Contractor (if any) None

Address of Contractor

Date Started 1902 Date Completed 1902

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Water in spring comes to surface. Used for watering livestock



S. 1/4 Sec. 22 T. 14 R. 20

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

Used during pasture season continuously
each year. 10 miners inches flows
continuously.

Signature of Owner Paul Hamel

Date December 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

20376

1257

Copy
816 31st Dec 1965
of Miscellaneous County, State of Montana
Witness by
By Margaret S. DeLamater County Recorder
Fee \$ 0.00 Paid

File No. _____

MONTANA WATER RESOURCES BOARD

T. 14N R. 20W

DUPLICATE

RECEIVED

County Missoula

LOG

SEP 8 1970

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

Well location: BUTLER
Butte CreekNotice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0-2 Black Dirt

2-13 Clay and Gravel

19-20 Clay, Sand,

Gravel, Deep of Driller

Water

20-44 Sand, Clay,
Gravel

44-50 Gray Shale

50-57 Clay and Gravel

57-68 Dark Brown Shale
and WaterOwner: Harold McPherson Address: 1700 E. 3rd St.Green Lake, Montana Address: 1522 S. 14th W.Missoula, Montana

Date of Notice of appropriation of groundwater _____

Date well started: April 2, 1970 Date completed: April 4, 1970Type of well: Drilled Equipment used: Sharn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

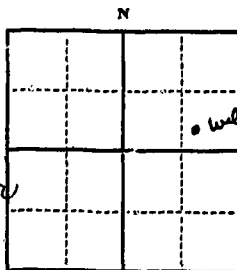
Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

5" perforated liner
from 47' to 58' with a
5' lap into 5" casing.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5" I.D.	5" I.D. 72 lb per ft.	1'	58' 17"	Superficial	47'	68'
5" I.D.	5" I.D. 14 lb per ft.	47'	68'	Full length of 5" liner		

Doc. No. 294523

Filed for record

this 2 day of SeptemberA. D. 19 70, at 1.00o'clock P. M.Static Water Level for non-flowing well
_____ 12 _____ feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level _____ 40 _____ feet

at _____ 15 _____ gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested: Test

Length of Test: _____ hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

E 1/4 Sec 24 T 14N R 20W

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number _____

Driller's Signature: Shawn CampDATE: SEP 14 1970

47454

2035 294523

I received and filed this instrument for
record on the 2nd day of Sept 1972
at 1:00 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Veronica B. Cronce, County Recorder
By *Donna A. [Signature]* Deputy
Fee \$ 2.00 [Signature] Paid

File No.

T 14 N R 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 18 1964
STATE ENGINEER

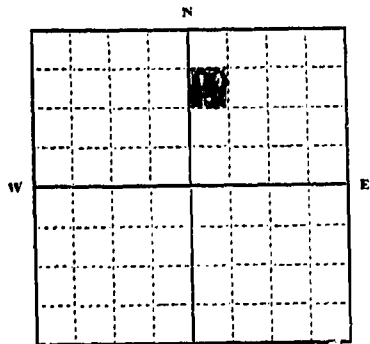
**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 28, 1963
Owner Howard Raser Address Missoula, Montana
Contractor (if any) Does not apply.
Address of Contractor Does not apply.
Date Started Does not apply. Date Completed Does not apply.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water rises naturally to surface, out of this Spring the entire year around.

(Owner calls this Spring Number Three (3)-)



NE 1/4 Sec. 25 T. 14 R. 20

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. Water from this Spring is used for Livestock Water purposes and flows the year around. At least 2500 gallons per day comes from this Spring. Owner has used this water since 1958 and prior owners have used this water since year 1910.

Signature of Owner Howard Raser

Date January 17, 1964

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1372 216602

Copy

Recorded and Indexed	
21	day of Jan 1964
at 1:36 o'clock P. M. Mountain time	
of Missoula County, State of Montana	
Witness my hand:	
MARTIN S. BEHNER, County Recorder	
By	Paul J. [Signature] Deputy
Fee \$ 2.00	Paid

25

File No.

T. 14 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 21 1964

STATE ENGINEER

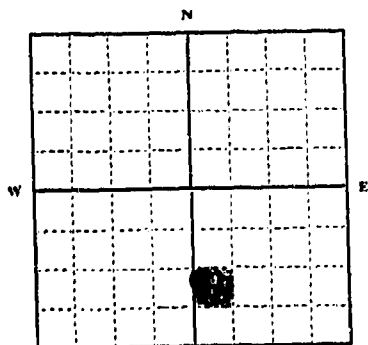
**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 28, 1963Owner Howard Raser Address Missoula, MontanaContractor (if any) Does not apply.Address of Contractor Does not apply.Date Started Does not apply Date Completed Does not apply.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water rises naturally to surface, out of this Spring the entire year around.

(Owner calls this Spring Number Four (4)-)



SE 1/4 Sec. 25 T. 14 R. 20

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Water from thisSpring is used for Livestock Water purposes and flowsthe year around. At least 4000 gallons per day comesfrom this spring. Owner has used this water since 1958,and prior owners have used the water since 1910.Signature of Owner Howard RaserDate January 17, 1964

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1968

216597

copy

I received and filed this instrument for record on the <u>21</u> day of <u>June</u> , 19 <u>68</u> at <u>1:25</u> o'clock <u>P.</u> M., permanent files of Missoula County, State of Montana Witness my hand: MARTIN S. BEHNER, County Recorder By <u>Paul Lane</u> Deputy Fee \$ <u>3.00</u> Paid	
---	--